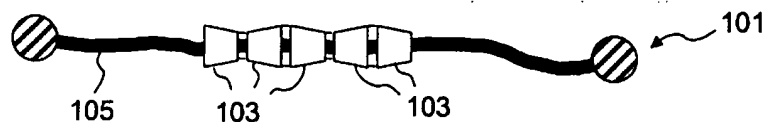


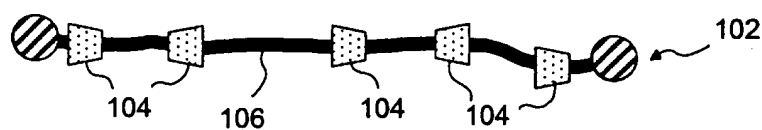
Unmodified Polyrotaxane:

Insoluble in Water due to CD Aggregation

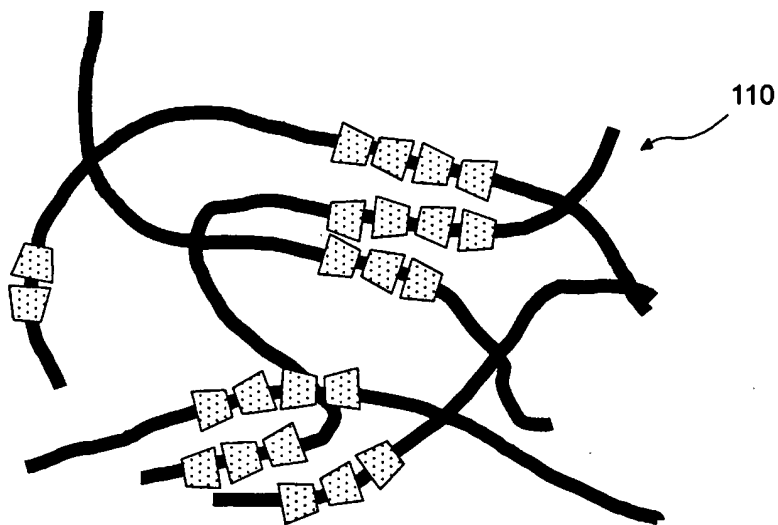


CD modified with Non-ionic Group

Modified Polyrotaxane: Soluble in Water due to CD Dispersion



Heat Aqueous Solution



Physical Crosslink Formed by CD Aggregation

FIG. 1

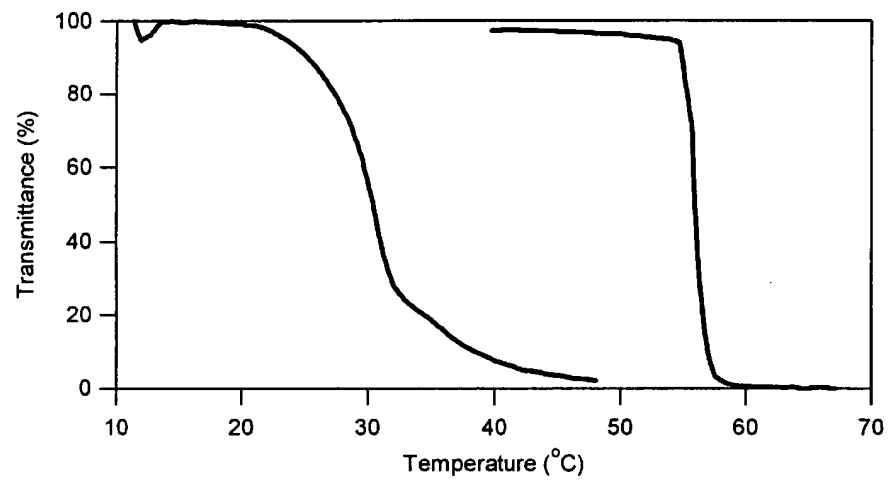


FIG. 2